

Project Name: Waste Discharge to Land
OCIO Project #:
Department: SWRCB
Revision Date:

Concept Statement

Description

Brief description of the proposed project:

To provide a system or modules that will support the business needs of secure regulatory users for regulating waste discharges to land by providing a single data input system that integrates existing, and that develops new publically available performance reports and that is able to receive/report data from other Water Board data management systems.

Need Statement

High Level Functional Requirements:

A new system or modules are needed to:

Provide a secure regulatory system for a single data input system that streamlines the management of regulation of waste discharges to land

- ☐ Combines business needs partially met by different data management systems
- ☐ Adds functionality that meets currently unmet business needs
- ☐ Integrates WDTLRPR information with the billing system
- ☐ Integrates data from historical waste discharge to land datasets
- ☐ Tracks and manages permitting information related to issuance, review, renewal, and scheduling
- ☐ Tracks and manages inspection functionality including scheduling
- ☐ Tracks and manages violation and enforcement functionality
- ☐ Tracks and reports data for each waste discharge within a facility
- ☐ Facilitates secure reporting of laboratory data, field measurement data, documents and reports;
- ☐ Tracks and reports data for each set of environmental monitoring points associated with each waste discharge within a facility
- ☐ Tracks compliance and progress of environmental monitoring programs
- ☐ Tracks and reports engineered structures and history of facility operations including units within facility
- ☐ Supports case management including email tickler reminders, document tracking
- ☐ Supports reports necessary for managing regulation of waste discharges to land
- ☐ Allows GIS mapping and querying in relationship to other potentially contaminating activities and to wells and other potential public exposure pathways;
- ☐ Provide publically available performance reporting.

What is Driving This Need?

A lack of integrated information for decision making, inability to easily identify facilities and validate data, and an inadequate public interface.

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Risk to the Organization if This Work is Not Done:
SWRCB will continue to fall short of being able to assess and track compliance with water quality objectives.

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Benefit Statement

Intangible Benefits

Process Improvements (describe the nature of the process improvement):

Provide a secure regulatory system for a single data input system that streamlines the management of regulation of waste discharges to land and to help the Water Boards to provide greater protection of human health and the environment.

Other Intangible Benefits:

Enabling staff to conduct regulatory permit/waiver oversight, compliance responses, compliance tracking, and impact to resource tracking; Single data input system that will enable staff to update data currently housed in CIWQS including billing, permit and enforcement data and information; Secure reporting of laboratory data, field measurement data, documents and reports; Streamlined and improved violation reports and e-mail notification; Increased capability for GIS mapping and querying; Ability to comprehensive analyze environmental data; The ability to produce comprehensive management reports and meet mandated reporting requirements; Reduce the risks of data errors and inconsistency; Reduce the risk of potential system failure/data loss due to obsolete and unsupported technology; Meet public expectations of for public reporting and transparency in government; Increased system integrity; and Decreased end-user support and reduction of staff workload because of new system ease-of-use and technology stability.

Tangible Benefits

Revenue Generation (describe how revenue will be generated):

N/A

Cost Savings (describe how cost will be reduced):

Decreased end-user support and reduction of staff workload because of new system ease-of-use and technology stability. Personnel requirements are divided into business program and IT personnel. There are currently 1.7 program and administrative Full-time Equivalents (FTEs) supporting management of waste discharge to land data.

Known technical resources IT personnel are .3 FTE for project management and technical staff.

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Cost Avoidance (describe the cost and how avoided):

N/A


Risk Avoidance (describe the risk and how avoided):

Water Board WDTLRPR Project Manager – Has overall responsibility for the WDTLRPR. The Project Manager will help identify project risks, review and approve the Risk Management Plan, regularly review the Project Issues Log, and meet regularly with the Project Team.
Vendor Project Team Leads – Will develop and maintain the Risk Management Plan and the Issues Log. The vendor team leads will assist the Water Board Project Manager in monitoring project risks, developing risk mitigation strategies and contingency plans, and ensuring that these are implemented appropriately.

Improved Services:

1. Capability to quickly identify and communicate to the regulated community, legislators, and the public the relationship between risk factors and providing a means to readily evaluate and address potential risks.
2. Display of potentially contaminating activities with water bodies they could affect to identify and communicate potential risk and mitigation of that risk to regulate the discharge of waste to land.
3. Timely and accurate Integrated access to a wide variety of related information.
4. Provide a single comprehensive data system for management and reporting of waste discharges to land.

Consistency

"No" Responses 		Rationale	Action Required
Enterprise Architecture	Yes		
Business Plan	Yes		
Strategic Plan	Yes		

Impact to Other Entities

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Nature of Impact to Other Entities

Entity:
<i>Describe the nature of the impact:</i>
N/A

Entity:
<i>Describe the nature of the impact:</i>
N/A

Entity:
<i>Describe the nature of the impact:</i>
N/A

Entity:
<i>Describe the nature of the impact:</i>
N/A

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Solution Alternatives

Alternative 1: SWRCB to enter into a service agreement to use an off-the-shelf integrated, web-based, relational data management and geographic information system with a vendor

The proposed solution is for the SWRCB to enter into a service agreement to use an off-the-shelf integrated, web-based, relational data management and geographic information system with a vendor, which meets all of identified objectives and functional requirements.

Technical Considerations for Alternative 1:

The proposed solution will not use any of the Water Board's current LAN/WAN hardware, file, application or database servers. The data and application code will be stored, managed, and maintained by the vendor. This proposed solution does not require the Water Board to procure hardware or software. Ownership of the application code will reside with the vendor, while the data entered into the system will belong to with the Water Board.

ROM Cost: to

Note: high end of range must not exceed 200% of low end of range

Alternative 2: Utilize standard development tools to enhance existing custom application

In this alternative, enhancements would be made to the CIWQS system using existing development tools.

Technical Considerations for Alternative 2:

- o Potentially higher risk of failure and/or support for existing technology;
- o Investment of time increased for development and program staff to define, create, and maintain the system.

ROM Cost: to

Note: high end of range must not exceed 200% of low end of range

Alternative 3: Use standard development tools to develop new custom application

In this alternative, a new WDTL system would be created using new development tools.

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Technical Considerations for Alternative 3:

- o Potentially higher risk of failure and/or support for existing technology;
- o High periodic costs to update technology or settle for technology that becomes outdated.

ROM Cost:

to

Note: high end of range must not exceed 200% of low end of range

Recommendation

Comparison:

Alternative 1	ROM Cost	Risk
	\$0 - \$0	
Alternative 2	ROM Cost	Risk
	\$0 - \$0	
Alternative 3	ROM Cost	Risk
	\$0 - \$0	

Conclusions:

1	
2	
3	
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Recommendation:

Project Approach *(if known)*

System Complexity:			System Business Hours: <i>(e.g., 24x7, 9am-5pm)</i> :		
Architecture	<input type="checkbox"/> Mainframe	<input type="checkbox"/> Client Server	<input checked="" type="checkbox"/> Web Based		Num. of New Databases:
Technology	<input checked="" type="checkbox"/> New	<input type="checkbox"/> New to Staff	<input type="checkbox"/> In-House Experience		Interfaces:
Implementation	<input checked="" type="checkbox"/> Central Site	<input type="checkbox"/> Phased Roll-out			Num. of Sites:
M & O Support	<input checked="" type="checkbox"/> Contractor	<input type="checkbox"/> Data Center	<input checked="" type="checkbox"/> Project	<input type="checkbox"/> In House	
Procurement Approach: CMAS					Number of Procurements:
Open Procurement?		Delegated Procurement? Yes			
Scope of Contract	<input checked="" type="checkbox"/> Development	<input checked="" type="checkbox"/> Implementation	<input checked="" type="checkbox"/> M & O	<input type="checkbox"/> Other:	
Anticipated Length of Contract:		Years / 1 extensions for years			